

中华人民共和国国家知识产权局

	路 1 号清华同方科技大厦 B 座 25 层 利商标代理有限责任公司 王玮	发文日
申请号: 038221314		
申请人:株式会社 NTT 都科	家	2009.09.03
发明名称:电子通信系统、装置	置和电极铺设方法	***

第一次审查意见通知书

	(进入国家阶段的 PCT 申请)
1.	☑应申请人提出的实审请求,根据专利法第35条第1款的规定,国家知识产权局对上述发明专利申请
	进行实质审查。
	□根据专利法第35条第2款的规定,国家知识产权局决定自行对上述发明专利申请进行审查。
2.	☑申请人要求以其在:
	JI ⁾ 专利局的申请日 2002年 07月 18日为优先权日,
	JP 专利局的申请日 2002年 07月 18日为优先权日,
	JI ⁾ 专利局的申请日 2002年 07月 18日为优先权日。
3.	□申请人于 年 月 日和 年 月 日以及 年 月 日提交了修改文件。
	经审查,申请人于 年 月 日提交的 不符合专利法实施细则第51条第1款的规定。
4.	✓ 查是针对原始提交的国际申请的中文译文进行的。
	□_审查是针对下述申请文件进行的:
	□说明书 第页,按照进入中国国家阶段时提交的国际申请文件的中文文本;
	第页,按照专利性国际初步报告附件的中文文本;
	第页,按照依据专利合作条约第28条或41条规定所提交的修改文件;
	第页,按照依据专利法实施细则第51条第1款规定所提交的修改文件;
	第 页,按照 年 月 日所提交的修改文件。
	□权利要求 第项,按照进入中国国家阶段时提交的国际申请文件的中文文本;
	第项,按照依据专利合作条约第19条规定所提交的修改文件的中文文本;
	第项,按照专利性国际初步报告附件的中文文本;
	第项,按照依据专利合作条约第28条或41条规定所提交的修改文件:
	第项,按照依据专利法实施细则第51条第1款规定所提交的修改文件,
	第 项,按照 年 月 日所提交的修改文件。
	□附图 第页,按照进入中国国家阶段时提交的国际申请文件的中文文本;
	第页,按照专利性国际初步报告附件的中文文本,
	第页,按照依据专利合作条约第28条或41条规定所提交的修改文件;
	第页,按照依据专利法实施细则第51条第1款规定所提交的修改文件;
	第 页,按照 年 月 日所提交的修改文件。

117 7		
□ ▽ 本通知书引	用下述对比文件(其编号在4	·后的审查过程中继续沿用) :
编号	文件号或名称	公开日期(或抵触申请的申请日)
1	JP10229357A	1998-8-25
2	JP2001352299A	2001-12-21
5. 审查的结论性意见:	:	
✓ 关于说明书:		
甲埔的内容属于	专利法第5条规定的不授予	专利权的范围。
	利法第 26 条第 3 款的规定。 利法第 33 条的规定。	
	符合专利法实施细则第 18 条	的规定。
✓关于权利要求书:		
□ 权利要求 【报利要求】	不具备专利法第 22 条第 2	款规定的新颖性。
▼ 秋 刊 安 求 14-17, 7	20, 24, 25不具备专利法第 22 不具备专利法第 22 条第 4	余男 3
□权利要求	_属于专利法第25条规定的	·
✓权利要求 1,9,2		款的规定。
权利要求	一不符合专利法第 31 条第 1	款的规定。
□ 权利要求 □ 权利要求	不符合专利法第 33 条的规 不符合专利法实施细则第	
□权利要求	一不符合专利法实施细则第	
☑权利要求1,7,11,		法实施细则第 20 条的规定。
	不符合专利法实施细则第	21.条的规定。
□ 权利要求 □ 权利要求	不符合专利法实施细则第 不符合专利法实施细则第	
一次小女水		23 余的观处。
	合专利法实施细则第 43 条第	
上述结论性意见的具	具体分析见本通知书的正文部	邓分。
6. 基于上述结论性意见	心,甲貸贝认刀: 印书正文部分提出的要求,对	由请文件进行修改
了 申请人应在意见	陈述书中论述其专利申请可以	以被授予专利权的理由,并对通知书正文部分中指出的
不符合规定之处进行	了修改,否则将不能授予专利	权。
	可以被授予专利权的实质性内	内容,如果申请人没有陈述理由或者陈述理由不充分,
八		
7. 申请人应注意下述	事项:	
(1)根据专利法第37条	的规定,申请人应在收到本证	通知书之日起的肆个月内陈述意见,如果申请人无正当
理由逾期小答复,其	申请将被视为撤回。	
有关规定。	多以应付合专利法第33条的	规定,修改文本应一式两份,其格式应符合审查指南的
(3)申请人的意见陈述书	的和/或修改文本应邮寄或设	的
受理处的文件不具备		
8.本诵知书正文部分出	/ 以代理人不得削米国家知 有 4 页,并附有下述附件	识产权局专利局与审查员举行会晤。
引用的对比文件的		•

审查员: 申砾(3341)



审查部门

通信审查部

第一次审查意见通知书正文

申请号: 038221314

本申请涉及一种电场通信系统及电场通信装置。经审查,现提出如下的审查意见。

- 1. 权利要求14不具备专利法第二十二条第三款规定的创造性。对比文件1 (JP10229357A)公开了一种电场通信装置,并具体公开了以下的技术特征:其包括 配备在容易接受来自电介体的电效应的位置的接收机主电极RXB1,与发射机返回电极 建立静电耦合的接收机返回电机RXG1,测量在接收机主电极RXB1和接收机返回电极 RXG1之间产生的电状态的测量部件(参见对比文件1的说明书第24-46段、图1-3); 该权利要求与对比文件1的区别在于:测量部件包括电光晶体、光发射装置、和光接 收装置。上述区别特征已被对比文件2(JP2001352299A)公开:接收装置中包括根据 电场来调制光的电光晶体27,向电光晶体27发射光的光发射装置31,和根据接收到的 渗透到电光晶体27中的光来输出信号的光接收装置29(参见对比文件2的说明书第 25-34段、图1-3),对比文件2的技术领域与本申请的技术领域相同,而且该特征在 对比文件2中所起的作用与其在本发明中为解决其技术问题所起的作用相同,都是用 于利用电光晶体和光检测器来形成电场传感器以检测电场获得信号, 也就是说对比文 件2给出了将该技术特征用于该对比文件1以解决其技术问题的启示, 进而使得本领域 的技术人员有动机将对比文件2和对比文件1结合起来构成该权利要求的技术方案。由 此可知,在对比文件1的基础上结合对比文件2得出该权利要求所要求保护的技术方 案,对本领域的技术人员来说是显而易见的,因此权利要求14不具有突出的实质性特 点和显著的进步,因而不具备创造性。
- 2. 权利要求15不具备专利法第二十二条第三款规定的创造性。该从属权利要求限定部分的附加技术特征也已在对比文件1中公开:接收机返回电极RXG位于远离电介体并且面向电介体的位置(参见对比文件1的图23,24),且其在该对比文件中所起的作用与其在本发明中所起的作用相同,都是用于便于使用者进行通信并提高通信质量。因此,在其引用的权利要求不具备创造性的情况下,该从属权利要求也不具有突出的实质性特点和显著的进步,因而不具备创造性。
- 3. 权利要求16、17不具备专利法第二十二条第三款规定的创造性。上述从属权利要求限定部分的附加技术特征是所属技术领域中的公知常识,根据使用需求本领域技术人员容易想到将电场传感器中使用的电光晶体放置在适当的位置以便于检测。因

- 此,在其引用的权利要求不具备创造性的情况下,上述从属权利要求也不具有突出的实质性特点和显著的进步,因而不具备创造性。
- 4. 权利要求20不具备专利法第二十二条第三款规定的创造性。对比文件1公开了:接收机返回电机RXG1配备在电场通信期间其不接触电介体的位置(参见对比文件1的说明书第36段、图1);而将电场通信装置中的测量部件配备于一绝缘体中,以及将接收机主电极配备在绝缘体的表面上以便于通信,这是本领域的常用技术手段,属于公知常识。因此,在其引用的权利要求不具备创造性的情况下,该从属权利要求也不具有突出的实质性特点和显著的进步,因而不具备创造性。
- 5. 权利要求24、25不具备专利法第二十二条第三款规定的创造性。对比文件1公开了: 电场通信装置包括根据测量部件的测量结果获得电信号,并通过解调电信号获得发射数据的解调器DMD1(参见对比文件1的说明书第36-39段、图2); 而在解调器中设置用于存储所接收的数据包的临时存储器以当解调失败时可重新进行解调,以及在解调时先判断接收数据的极性继而相应地进行后续的解调步骤以获得解调信号,都是本领域的常用技术手段,属于公知常识。因此,在其引用的权利要求不具备创造性的情况下,上述从属权利要求也不具有突出的实质性特点和显著的进步,因而不具备创造性。
- 6. 权利要求1不符合专利法第二十六条第四款的规定。该权利要求中的技术特征 "根据所述电信号调制所述发射机主电极和所述接收机返回电极之间电压差的调制器"并未记载在说明书中,并且所属技术领域的技术人员也无法从说明书充分公开的内容中得到或概括得出该技术方案。因此,权利要求1没有以说明书为依据,不符合专利法第二十六条第四款的规定。
- 7. 权利要求9不符合专利法第二十六条第四款的规定。该从属权利要求限定部分的附加技术特征在说明书中没有记载,并且所属技术领域的技术人员也无法从说明书充分公开的内容中得到或概括得出该技术方案。因此,权利要求9没有以说明书为依据,不符合专利法第二十六条第四款的规定。
- 8. 权利要求21不符合专利法第二十六条第四款的规定。该权利要求中的技术特征 "根据所发射的数据改变所述发射机主电极和所述发射机返回电极之间的电压差的 调制器,所述调制器根据对应用来通知出现所述电场通信装置的通知信息的电信号来 改变电压差"并未记载在说明书中,并且所属技术领域的技术人员也无法从说明书充分公开的内容中得到或概括得出该技术方案。因此,权利要求21没有以说明书为依据,不符合专利法第二十六条第四款的规定。

- 9. 权利要求1、12、14、22不符合专利法实施细则第二十条第一款的规定。权利要求1第6行中"所述接收机返回电极"、权利要求12第2行中"所述接收装置"、权利要求14中"所述电介体""所述发射机返回电极"、权利要求22第2行中"所述发射机装置""所述发射机主电极"、第4行中"所述通知信息"缺乏引用基础,因而导致上述权利要求的保护范围不清楚。
- 10. 权利要求7不符合专利法实施细则第二十条第一款的规定。该权利要求所引用的权利要求1中出现了"发射机主电极""发射机返回电极""接收机主电极""接收机返回电极",因而权利要求7中"所述一个电极"指代不清,导致该权利要求的保护范围不清楚。
- 11. 权利要求11不符合专利法实施细则第二十条第一款的规定。该权利要求中 "所述接收机主电极配备在所述接收机主电极不接触所述发射机主电极和所述接收 机主电极的位置"逻辑关系不清楚,无法理解接收机主电极如何不接触接收机主电极,导致该权利要求的保护范围不清楚。另外,该权利要求在非结尾处使用了句号(第3行行尾),请申请人对此进行修改。
- 12. 权利要求12不符合专利法实施细则第二十条第一款的规定。该权利要求中"所述目标电极和所述返回电极可以穿过所述电光晶体彼此相对位置"表述上语句不通顺,语意不清楚,导致该权利要求的保护范围不清楚。
- 13. 权利要求18、19不符合专利法实施细则第二十条第一款的规定。上述权利要求中"所述测量部件位于比所述接收机返回电极更接近所述电光晶体的位置"逻辑关系不清楚,其所引用的权利要求14中限定了"测量部件包括电光晶体",无法理解包括电光晶体的测量部件如何位于接近所述电光晶体的位置,导致上述权利要求的保护范围不清楚。
- 14. 发明的名称应当清楚、简要、全面地反映要求保护的发明的主题和类型,本申请的发明名称"电子通信系统、装置和<u>电极铺设方法</u>"不符合上述规定,因而不符合专利法实施细则第十八条第一款的规定。

申请人应在本通知书指定的答复期限内作出答复,对本通知书中提出的所有问题逐一详细地作出说明,并根据本通知书的意见对专利申请文件作出修改,尤其是应根据本通知书中引用的对比文件修改独立权利要求以及相应的从属权利要求,并在意见陈述书中论述新修改的独立权利要求相对于本通知书中引用的对比文件以及原说明书中提到的申请日前的现有技术具有新颖性和创造性的理由。此外,说明书应根据修

改后的权利要求书作适应性修改。申请人对申请文件的修改应当符合专利法第三十三条的规定,不得超出原说明书和权利要求书的记载范围。

审查员: 申砾

代码: 3341

State Intellectual Property Office of People's Republic of China

	ZIP CODE: 100083 25/F., Bldg.B, Tsinghua Tongfang Hi-Tech Plaza, No.1, Wangzhuang Rd., Haidian District, Beijing, P. R. China	Issuing Date: September 4, 2009
	Patent Agent: Wei WANG	
	Application No. 03822131.4	
	Applicant: NTT DoCoMo, Inc.	
	Title of Invention: Electric-Field Communication S Device, and Electrode Disposing Method	System, Electric-Filed Communication
	FIRST OFFICE ACT	ΓΙΟΝ
	(For PCT Application Entering the	•
1.🛛	The applicant filed a request for substantive examination. The e	
	on the above mentioned application in accordance with the prov	
Ц	The Patent Office has decided to carry out substantive examinat	
2.🖂	accordance with the provisions of Article 35(2) of the Chinese F The applicant claimed:	Patent Law.
2.23	the filing date 2002.7.18 in the Japan Patent Office as	the majority deta
	the filing date 2002.7.18 in the Japan Patent Office as	
	the filing date 2002.7.18 in the Japan Patent Office as	
	the filing date in the Patent Office as the	
	the filing date in the Patent Office as the	
3.	The applicant submitted amendment(s) to the application on	
	submitted on is not in conformity with the provisions of	
	Chinese Patent Law.	· · · · · · · · · · · · · · · · · · ·
. 4.⊠	The examination was carried out based on the Chinese translation filed.	on of the international application as originally
	The examination was carried out on the basis of the following ap	oplication documents:
[The description	
	Pages, the Chinese translation of the international	
	Pages, the Chinese translation of the annexes to th	-
	Pages, the Chinese translation of the amendment s	ubmitted under Article 28 or 41 of the Patent
	Cooperation Treaty;	
	Pages, amendment submitted according to Rule 51 Chinese Patent Law;	(1) of the Implementing Regulations of the
	Pages, the amendment(s) submitted on	
Г	The claims	
	Nos, the Chinese translation of the international app	lication as filed when entering national phase.
	Nos, the Chinese translation of the amendment subm	
	Treaty.	and a second coopporation
	Nos, the Chinese translation of the annexes to the In	ternational Preliminary Examination Report:
	Nos. the Chinese translation of the amendment subm	-

Coope	ration Treaty;			
Nos	, amendment submitted according to Rule 51(1)	of the Implem	enting Regulat	ions of the Chinese
Patent				
Nos	, amendment submitted on			
☐ The draw				
	, the Chinese translation of the international ap			
Pages_	, the Chinese translation of the annexes to the I	nternational P	reliminary Exa	mination Report;
	the Chinese translation of the amendment sub-	mitted under A	rticle 28 or 41	of the Patent
	ration Treaty;			
Pages_	, amendment submitted according to Rule 51(1)	of the Implen	nenting Regula	tions of the Chinese
Patent	Law.			
Pages _	, the amendment(s) submitted on			
☐ The abst	tract			
The Chi	nese translation of the international application as fil-	ed when enter	ng national ph	ase.
☐ The draw	wings of abstract			
The Chir	nese translation of the amendment submitted under A	rticle 28 or 41	of the Patent (Cooperation Treaty;
	wing reference documents have been cited in this off			
	suing examination procedure):			
			Publication	Date
Serial No.	Reference document(Number or Title)	(or Fili		ference patent
1	VD-20-10-1		applications)	
1	JP10229357A	25	day 08 month	1998 year
2	JP2001352299A	21	day 12 month	2001 year
3		day	month	year
4		day	month	year
	e examination is as follows:			
Description D				
	subject matter of the application falls into the scope	on which no	oatent right sha	all be granted as
	rided by Article 5 of the Chinese Patent Law.			
	description is not in conformity with the provisions			
	description is not in conformity with the provisions			
	description is not in conformity with the provisions	of Rule 18 of	the Implement	ing Regulations of
	Chinese Patent Law.			
Claims:				
	m does not possess novelty as provided by			
🛛 Clai	m 14-17,20,24,25 does not possess inventiveness a	s provided by	Article 22(3)	of the Chinese Patent
Law				
☐ Clai	m does not possess practical applicability	as provided b	y Article 22(4)	of the Chinese
Pate	nt Law.			
☐ Clai	m falls into the scope, on which no patent	rights shall b	e granted, as p	rovided by Article 25
	e Chinese Patent Law.		-	·
🛛 Clai	m 1,9,21 is not in conformity with the provisions	s of Article 26	(4) of the Chin	ese Patent Law.
	m is not in conformity with the provisions			
	m is not in conformity with the provisions			
	m is not in conformity with the provisions			
	Chinese Patent Law			resentations of
∐ Clai:	mis not in conformity with the provisions o	of Rule 13(1) o	f the Implemen	nting Regulations of

	the Chinese Patent Law.
	Claim 1.7,11,12,14,18,19,22 is not in conformity with the provisions of Rule 20 of the Implementing
	Regulations of the Chinese Patent Law.
	Claim is not in conformity with the provisions of Rule 21of the Implementing Regulations of
	the Chinese Patent Law.
	Claim is not in conformity with the provisions of Rule 22 of the Implementing Regulations of
	the Chinese Patent Law.
1	Claim is not in conformity with the provisions of Rule 23 of the Implementing Regulations of the Chinese Patent Law.
□ T	he divisional application is not in conformity with the provisions of Rule 43(1) of the Implementing
Re	egulations of the Chinese Patent Law.
The d	letail analysis for above conclusive opinion is described in the text of this office action.
6. On the b	pasis of the above conclusive opinion, the examiner holds that:
□ T	he applicant should make amendments as required in the text of this office action.
⊠ T	he applicant should provide reasons for that the above mentioned patent application can be granted the paten
ri	ight, and make amendments to the specification which is not in conformity with the provisions as described in
te	ext of this office action; otherwise the patent right shall not be granted.
П	The patent application does not possess any substantive patentable contents, if the applicant fails to provide
re	easons or the reasons provided are not sufficient, this application will be rejected.
7. The appl	licant's attention is drawn to the following matters:
(1) 1	In accordance with the provisions of Article 37 of the Chinese Patent Law, the applicant shall submit a
r	esponse within four months from the receipt of this office action. If the applicant fails to meet the time
1	imit without any justified reason, the application shall be deemed withdrawn.
(2) 7	The amendment made by the applicant shall be in conformity with the provisions of Article 33 of the Chinese
F	Patent Law. The amended documents shall be submitted in duplicate and in the format required by the
r	elevant provisions of the Examination Guideline.
(3) T	The applicant's response and/or amended documents shall be mailed or submitted to the Receiving
Ι	Department of the Chinese Patent Office. Documents which are not mailed or not submitted to the
F	Receiving Department do not possess legal effect.
(4) T	The applicant and/or his (its) agent shall not come to the Chinese Patent Office for interview with the
е	examiner without an appointment.
8. The text	t of this office action consists of a total of $\underline{4}$ sheets, and is accompanied by the following annexes:
□ A	copy of cited reference documents consisting of sets and sheets.
The	Examination Department The Seal of the Examiner: Li SHEN

DETAILED FIRST OFFICE ACTION

Application Number: 03822131.4

The application relates to an electric field communications system and an electric field communications apparatus. After examination, the Examiner is of the opinions as follows:

1. Claim 14 is rejected under Article 22(3) of the Chinese Patent Law.

Reference 1 (JP10229357A) discloses an electric field communications apparatus, and in particular discloses the following contents (see paragraphs 24-46 and Figs.1-3 of Reference 1):

The apparatus comprises a receiver main electrode RXB1 provided in a location where said receiver main electrode is readily subject to an electric effect from said dielectric; a receiver return electrode TXG1 that establishes an electrostatic coupling with said transmitter return electrode; and a measuring part that measures an electric status generated between said receiver main electrode RXB1 and said receiver return electrode RXG1.

Consequently, Claim 14 differs from Reference 1 in that the measuring parts comprises an electro-optical crystal, light emitting means and light receiving means.

The above distinguished technical feature has been disclosed in Reference 2 (JP2001352299A). According to paragraphs 25-34 and Figs. 1-3 of Reference 2, the receiving apparatus comprises an electro-optical crystal 27 that modulates light in response to an electric field, light emitting means 31 that emits light to said electro-optical crystal 27; and light receiving means 29 that outputs signals in response to the received light penetrating said electro-optical crystal 27.

Consequently, Reference 2 falls into the same technical field with the present application, and the technical effect achieved by the technical feature in Reference 2 is the same with that in the present application, i.e. to form an electric field sensor using an electro-optical crystal and a light detector DT so as to detect an electric field and obtain signals. That is, Reference 2 has given an inspiration of applying the technical feature in Reference 1 to solve its technical problem, and further gives those skilled in the art some motivation to combine Reference 2 with Reference 1 to get the technical solution of Reference 1. Therefore, it is obvious for those skilled in the art to get the technical solution of Claim 14 by combining Reference 1 with Reference 2. Accordingly, Claim 14 neither has prominent substantive features nor represents a notable progress, and is thus lack of inventive step.

Article 22(3) of the Chinese Patent Law:

Inventiveness means that, as compared with the technology existing before the date of filing, the invention has prominent substantive features and represents a notable progress and that the utility model has substantive features and represents progress.

2. Claim 15 is rejected under Article 22(3) of Chinese Paten Law.

The additional technical feature of Claim 15 has been disclosed in Reference 1. Specifically, Reference 1 discloses that said receiver return electrode RXG is positioned far from said dielectric and faces to said dielectric in Figs. 23 and 24 of Reference 1. Also, the technical effect achieved by the technical feature in Reference 1 is the same with that in the present invention, i.e. to facilitate users' communication and to improve communication qualities. Accordingly, Claim 15 neither has prominent substantive features nor represents a notable progress, and is thus lack of inventive step.

3. Claims 16 and 17 are rejected under Article 22(3) of Chinese Paten Law.

The additional technical features of Claims 16 and 17 belong to the common senses in the art, and it is conceivable for those skilled in the art to appropriately locate an electro-optical crystal used in an electric field sensor as required, so as to facilitate detection. Accordingly, Claims 16 and 17 neither have prominent substantive features nor represent notable progresses, and are thus lack of inventive step.

4. Claim 20 is rejected under Article 22(3) of Chinese Paten Law.

Reference 1 discloses the receiver return electrode RXG1 is provided in a location where said receiver return electrode cannot contact said dielectric during electric field communications (see paragraph 36 and Fig. 1 of Reference 1). On the other hand, providing the measuring part of the electric field communications apparatus in an insulator and providing the receiver main electrode on the upper face of the insulator to facilitate communications both belong to the common senses in the art. Accordingly, Claim 20 neither has prominent substantive features nor represents a notable progress, and is thus lack of inventive step.

5. Claims 24 and 25 are rejected under Article 22(3) of Chinese Paten Law.

Reference 1 discloses the electric field communications apparatus comprises a demodulator DMD1 that acquires electric signal based on the measurement result by said measuring part, and acquires the transmitted data by demodulating the electric signal (see

paragraphs 36-39 and Fig. 2 of Reference 1). On the other hand, it is the common senses for those skilled in the art to set a temporary memory for storing a received packet in the demodulator, so as to perform a re-demodulation when the demodulator fails to demodulate the packet, and it is well-known for those skilled in the art to firstly determine the polarity of the received data and then correspondingly perform successive demodulation steps, so as to obtain demodulated signals. Accordingly, Claims 24 and 25 neither have prominent substantive features nor represent notable progresses, and are thus lack of inventive step.

6. Claim 1 is rejected under Article 26(4) of the Chinese Patent Law.

The technical feature "a modulator that modulates a voltage difference between said transmitter main electrode and said transmitter return electrode in response to said electric signal" appearing in Claim 1 is not recited in the description, and those skilled in the art can not get or generalize the technical solution of Claim 1 from the contents fully disclosed in the description. Accordingly, Claim 1 can not be supported by the description, and does not comply with the requirements of Article 26(4) of the Chinese Patent Law.

Article 26(4) of the Chinese Patent Law: The claims shall be supported by the description and shall state the extent of the patent protection asked for.

7. Claim 9 is rejected under Article 26(4) of the Chinese Patent Law.

The additional technical features of Claim 9 are not recited in the description, and those skilled in the art can not get or generalize the technical solution of Claim 9 from the contents fully disclosed in the description. Accordingly, Claim 9 can not be supported by the description, and does not comply with the requirements of Article 26(4) of the Chinese Patent Law.

8. Claim 21 is rejected under Article 26(4) of the Chinese Patent Law.

The technical feature "a modulator that changes a voltage difference between said transmitter main electrode and said transmitter return electrode in response to data to be transmitted, said modulator changes the voltage difference in response to an electric signal corresponding to notification information to notify existence of said electric field communications apparatus" appearing in Claim 21 is not recited in the description, and those skilled in the art can not get or generalize the technical solution of Claim 21 from the contents fully disclosed in the description. Accordingly, Claim 21 can not be supported by the description, and does not comply with the requirements of Article 26(4) of the Chinese Patent Law.

9. Claims 1, 12, 14 and 22 do not comply with the requirements of Rule 20(1) of the Implementing Regulations of the Chinese Patent Law.

There are no antecedents for the term "said transmitter return electrode" appearing in line 8 of Claim 1, the term "said receiving apparatus" appearing in line 2 of Claim 12, the terms "said dielectric" and "said transmitter return electrode" appearing in Claim 14, the term "said transmitter apparatus" appearing in line 3 of Claim 22, the term "said transmitter main electrode" appearing in line 4 of Claim 22, and the term "said notification information" appearing in line 6 of Claim 22, thereby leading to unclear scopes for Claims 1, 12, 14 and 22.

Rule 20(1) of the Implementing Regulations of the Chinese Patent Law: The claims shall define clearly and concisely the matter for which protection is sought in terms of the technical features of the invention or utility model.

10. Claim 7 does not comply with the requirements of Rule 20(1) of the Implementing Regulations of the Chinese Patent Law.

There are terms "transmitter main electrode", "transmitter return electrode", "receiver main electrode" and "receiver return electrode" appearing in Claim 1, thus it is unclear which one the term "an electrode" appearing in Claim 7 means, thereby leading to an unclear scope for Claim 7.

11. Claim 11 does not comply with the requirements of Rule 20(1) of the Implementing Regulations of the Chinese Patent Law.

The technical feature "said receiver main electrode is provided in a location where said receiver main electrode does not contact said transmitter main electrode and said receiver main electrode" recited in Claim 11 has an unclear logic, since it is difficult to understand how the receiver main electrode can not contact the receiver main electrode. Therefore, Claim 11 has an unclear scope.

12. Claim 12 does not comply with the requirements of Rule 20(1) of the Implementing Regulations of the Chinese Patent Law.

The technical feature "said destination electrode and said return electrode is positioned to be opposite each other across said electro-optical crystal" recited in Claim 12 is unclear, thereby leading to an unclear scope for Claim 12.

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13. Claims 18 and 19 do not comply with the requirements of Rule 20(1) of the Implementing Regulations of the Chinese Patent Law.

The technical feature "said measuring part is positioned nearer said electro-optical crystal than said receiver return electrode" recited in both of Claims 18 and 19 has an unclear logic, since Claim 14, to which Claims 18 and 19 refer, recites "said measuring part comprises an electro-optical crystal". Thus, it is unclear how the measuring part of the electro-optical crystal is positioned nearer said electro-optical crystal than said receiver return electrode, thereby leading to unclear scopes for Claims 18 and 19.

14. The title of the invention shall clearly, briefly and fully reflect the subject and type of the claimed invention. Thus, the title of the present application "ELECTRONIC COMMUNICATIONS SYSTEM, APPARATUS AND ELECTRODE LAYOUT METHOD" does not comply with such a provision, thus does not comply with the requirements of Rule 18 (1) of the Implementing Regulations of the Chinese Patent Law.

The applicant shall make a response by the due date specified in this Office Action, make explanations against all the issues mentioned in this Office Action one by one, amend the present application documents following the requirements of this Office Action, specifically amending the independent claims and dependent claims thereof according to the documents recited in this Office Action, and state out reasons for which the newly amended claims possess novelty and inventive step over the documents recited in this Office Action and the prior art before the date of filing mentioned in the description. Moreover, the applicant should make corresponding amendments to the description based on the amended claims. It shall be noted that the amendment to the application must comply with Article 33 of the Chinese Patent Law, i.e. shall not go beyond the scope of the disclosure contained in the initial description and claims.